

LAPORAN HASIL Pengerjaan
Membuat CRUD dengan Server Side Datatable dan Penerapan OOP CRUD
WORKSHOP SISTEM INFORMASI BERBASIS WEB

TUGAS



oleh

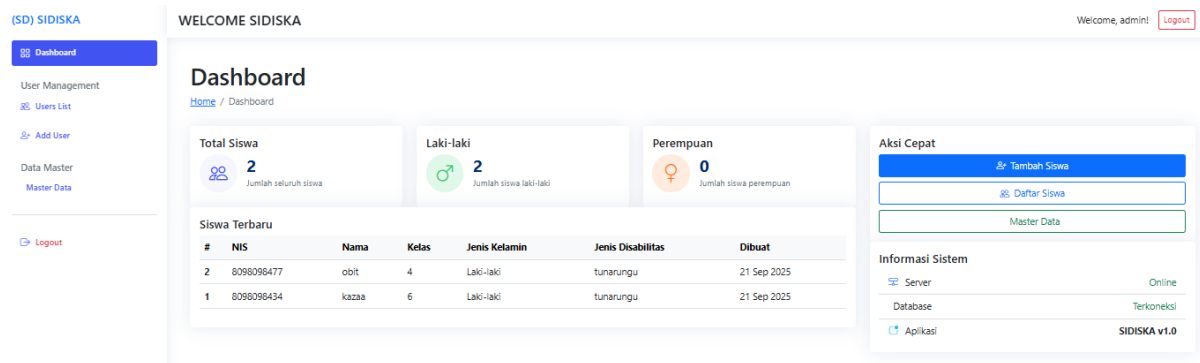
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POLITEKNIK NEGERI JEMBER
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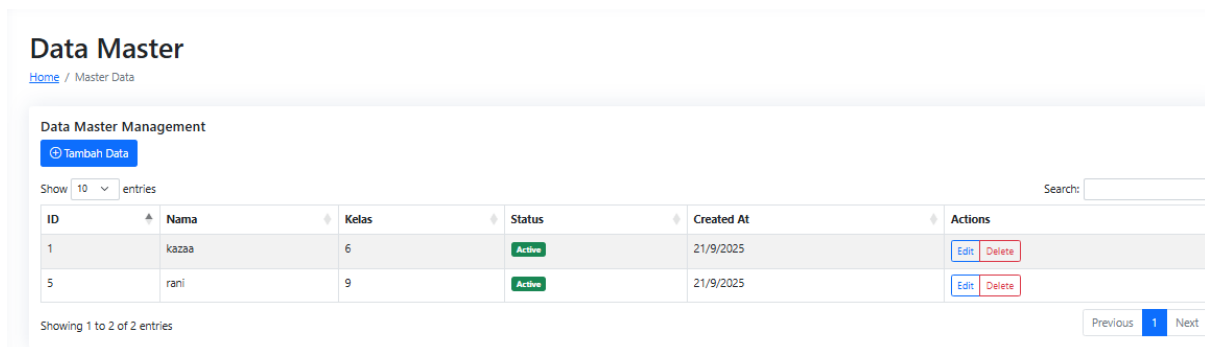
Tugas

Membuat satu menu lagi Data Master CRUD dengan menerapkan Server Side Datatable dan penerapan OOP pada CRUD nya.

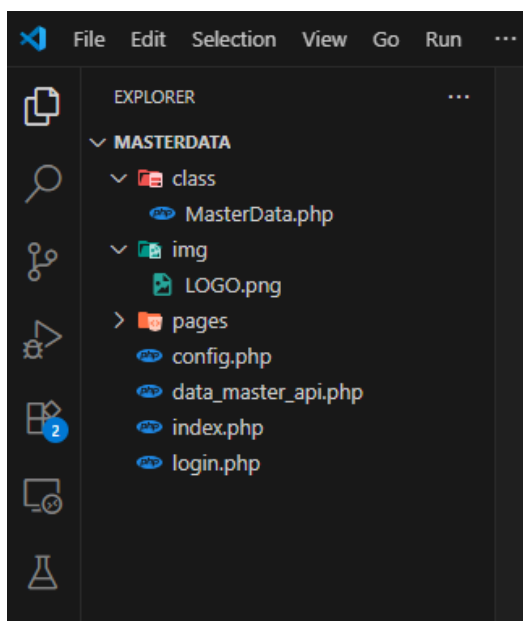
1. Tampilan Dashboard



2. Tampilan Server Side Datatable



3. Master Data File



4. Tampilan Syntax API Master Data

```
117 function getMasterData(): void
118 {
119     try {
120         $masterData = new MasterData();
121
122         $start = isset($_GET['start']) ? intval(value: $_GET['start']) : 0;
123         $length = isset($_GET['length']) ? intval(value: $_GET['length']) : 10;
124         $search = isset($_GET['search']) ? $_GET['search']['value'] : '';
125         $order_column_index = isset($_GET['order'][0]['column']) ? intval(value: $_GET['order'][0]['column']) : 0;
126         $order_dir = isset($_GET['order'][0]['dir']) ? $_GET['order'][0]['dir'] : 'ASC';
127
128         // mapping kolom DataTables
129         $columns = array('id', 'nis', 'nama', 'tanggal_lahir', 'jenis_kelamin', 'kelas', 'jenis_disabilitas', 'status');
130         $order_column = isset($columns[$order_column_index]) ? $columns[$order_column_index] : 'id';
131
132         $data = $masterData->readAll(start: $start, length: $length, search: $search, order_column: $order_column);
133         $total_records = $masterData->countAll();
134         $filtered_records = $masterData->countFiltered(search: $search);
135
136         $response = [
137             "draw" => isset($_GET['draw']) ? intval(value: $_GET['draw']) : 0,
138             "recordsTotal" => $total_records,
139             "recordsFiltered" => $filtered_records,
140             "data" => $data
141         ];
142
143         echo json_encode(value: $response);
144     } catch (Exception $e) {
145         http_response_code(response_code: 500);
146         echo json_encode(value: [
147             'error' => 'Server error in getMasterData',
148             'message' => $e->getMessage()
149         ]);
150     }
151 }
```

5. Tampilan Syntax Master Data

```
119 class MasterData
120 {
121     1 reference | 0 overrides
122     public function update($id, $nis, $nama, $tanggal_lahir, $jenis_kelamin, $kelas, $jenis_disabilitas, $status)
123     {
124         try {
125             $query = "UPDATE siswa
126                 SET
127                     nis = :nis,
128                     nama = :nama,
129                     tanggal_lahir = :tanggal_lahir,
130                     jenis_kelamin = :jenis_kelamin,
131                     kelas = :kelas,
132                     jenis_disabilitas = :jenis_disabilitas,
133                     status = :status
134                 WHERE id = :id";
135
136             $stmt = $this->conn->prepare(query: $query);
137             $stmt->bindParam(param: ':id', var: &$id, type: PDO::PARAM_INT);
138             $stmt->bindParam(param: ':nis', var: &$nis);
139             $stmt->bindParam(param: ':nama', var: &$nama);
140             $stmt->bindParam(param: ':tanggal_lahir', var: &$tanggal_lahir);
141             $stmt->bindParam(param: ':jenis_kelamin', var: &$jenis_kelamin);
142             $stmt->bindParam(param: ':kelas', var: &$kelas);
143             $stmt->bindParam(param: ':jenis_disabilitas', var: &$jenis_disabilitas);
144             $stmt->bindParam(param: ':status', var: &$status);
145
146             return $stmt->execute();
147         } catch (Exception $e) {
148             error_log(message: "Update error: " . $e->getMessage());
149             return false;
150         }
151     }
152
153     // Delete
154 }
```